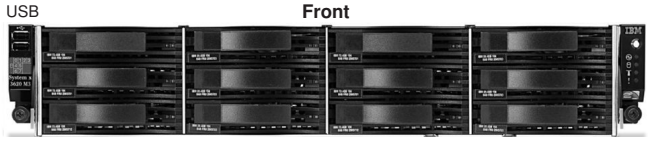
IBM System x3630 M3

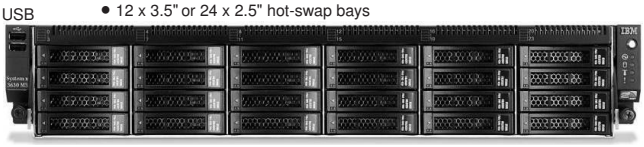
xREF by STG Field Skills and Education Team

IBM® Type-model	Qty x Processor/Core	L3 cache	Memory	Disk / Bays	Optical	Power Supply	Slots x bays	Ethernet	Available date
7377-A2x	1 x Xeon® E5603 1.60GHz/4C	4MB	1x4GB	open / 12 hot-swap 3.5"	None	1 x 675W	3x12	2 x Gb	Mar 2011
7377-B2x	1 x Xeon E5607 2.26GHz/4C	8MB	1x4GB	open / 12 hot-swap 3.5"	None	1 x 675W	3x12	2 x Gb	Mar 2011
7377-C2x	1 x Xeon E5620 2.40GHz/4C	12MB	1x4GB	open / 24 hot-swap 2.5"	None	1 x 675W	3x24	2 x Gb	Mar 2011
7377-D2x	1 x Xeon E5645 2.40GHz/6C	12MB	1x4GB	open / 12 hot-swap 3.5"	None	1 x 675W	3x12	2 x Gb	Mar 2011
7377-F2x	1 x Xeon E5649 2.53GHz/6C	12MB	1x4GB	open / 24 hot-swap 2.5"	None	1 x 675W	3x24	2 x Gb	Mar 2011
7377-64x	1 x Xeon X5650 2.66GHz/6C	12MB	1x4GB	open / 12 hot-swap 3.5"	None	1 x 675W	3x12	2 x Gb	Mar 2011
7377-G2x	1 x Xeon X5675 3.06GHz/6C	12MB	1x4GB	open / 24 hot-swap 2.5"	None	1 x 675W	3x24	2 x Gb	Mar 2011
7377-C4x*	1 x Xeon E5620 2.40GHz/4C	12MB	1x8GB	300GB / 24 hot-swap 2.5"	None	1x675W HE	3x24	2 x Gb	Jan 2012

Processor(s)	**Up to two Next Generation Intel® Xeon EP processors featuring Quick Path Interconnect(QPI) technology at up to 3.06GHz with up to 12MB L3 / up to 6 Core** / with **Intel Turbo Boost Technology and Hyper-Threading**
L3 cache	Up to 12MB / on-die / shared
SMP	2-way SMP / up to two Xeon Processors (same speed/cache size)
Implementation	Systemboard contains two Socket B (LGA1366) sockets, twelve DIMM slots, two PCI-E slots, SAS adapter slot, integrated SATA, ethernet and graphics controllers
Memory	4GB std / **96GB** max per processor(using 16GB DIMMs) / **PC3-10600 1333MHz LP 240-pin Registered ECC DDR3 SDRAM DIMMs** / twelve slots on systemboard / six DIMMS per processor / ChipKill / memory mirroring / Supports two DIMMs per channel at 1333MHz for X5600 series processors
Storage Controller	**IBM ServeRAID M1015** SAS/SATA controller / A2x, B2x / on riser card / PCI-E / supports **RAID-0/1/10** / hot-swap **IBM ServeRAID M5014** SAS/SATA controller / C2x, D2x / on riser card / PCI-E / supports **RAID-0/1/10/5/50** / hot-swap **IBM ServeRAID M5015 with battery** / F2x, 64x, G2x / on riser card / PCI-E / supports **RAID-0/1/10/5/50** / hot-swap
Disk bays	**3.5-inch: 12 std + 2 rear optional** / **2.5-inch: 24 std + 4 rear optional** / supports SAS and SATA HDD / hot-swap
Flash Storage	USB-based slot on SAS riser card for optional Hypervisor USB key
Mechanical	**EIA 19" Rack (2U[4])** / rack-mount only / supported in IBM NetBAY™ Rack products / no rack to tower conversion
Architecture/Chipset	**Intel 5500 Chipset** / Intel IO Hub provides PCI-Express slots, links to Intel 82575 and interface to ICH10R South Bridge / ICH10R provides: USB, SATA and LPC bus to VSC452 for video and limited Super I/O
BUS slots	(See below) Two second-generation PCI-Express x8 slots / via riser
Ethernet	**Two** Gigabit Ethernet ports / Intel 82575 / two full gigabit ethernet MAC and PHY layer functions / integrated / PCI-Express / full duplex / Wake on LAN® / Failover / PXE 2.0 / Load balancing
Optical / diskette	External USB only
Front & Rear ports	***Front:*** two USB (Vers 2.0) ***Rear:*** two USB (Vers 2.0), serial (9-pin), graphics (DB-15), two ethernet (RJ-45), one RJ-45 (sys mgmt) / no parallel port
Graphics	SVGA / Matrox G200eV integrated in IMM on systemboard / 16MB DDR2-250MHz SDRAM std/max
Systems Mgmt	**Integrated Management Module (IMM)** / VSC452 / integrated / provides system and environmental monitoring, event recording, alert capability / ASR / SOL / IPMI 2.0 / SMASH /upgradeable to Remote Presence, blue screen capture via optional IBM Virtual Media Key
Diagnostics	**Light Path Diagnostics**™ (LED lights indicate failing component) and on-board diagnostics
Security	Power-on password / administrator password / unattended boot / selectable boot / unattended start mode
Cooling	**Calibrated Vectored Cooling™ /** up to four fan modules / redundant / variable speed / PFA
Publications	**Installation Guide and Documentation CD**
Keyboard / mouse	None standard (because rack-based) / USB only
Power supply(s)	***Std/Max:*** one/two 675 watt hot-swap / rear access / auto restart / redundant with two power supplies / auto-sensing
Prerequisites	Monitor, keyboard, mouse, disk, rack, OS
*Preload	7377-C4x has Microsoft Windows Storage Server 2008 R2 Standard Edition preloaded

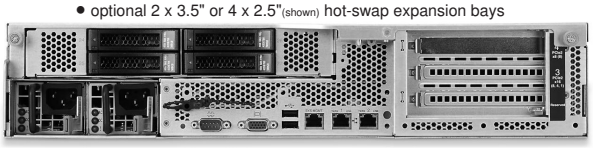


- 12 x 3.5" or 24 x 2.5" hot-swap bays



Rear

- optional 2 x 3.5" or 4 x 2.5"(shown) hot-swap expansion bays



- Slot 2: PCI-Express x8, half length, full height
- Slot 1: PCI-Express x8, half length, full height

PS 1 PS 2 serial video USB SM, #1, #2 ethernet

- Quick release adapter slots (no screws)
- Configuration/Setup Utility: F1 at startup
- Diagnostics (preboot DSA): F2 at startup
- Network Boot: F12 at startup
- Front indicators LEDs: Power-on, HDD activity, locator, and system-error
- Stealth black color
- 35.68 to 64.32 pounds
- Predictive failure analysis on disk options, memory, power supplies, and fans in conjunction with IBM Director can alert the system administrator of an imminent component failure
- Rack: H 3.4" x W 17.6" x D 28.35" (H 86.5mm x W 447mm x D 720.2mm)

Xeon E5506 2.13GHz / 4C / 4MB L3 Cache	69Y1217
Xeon E5507 2.26GHz / 4C / 4MB L3 Cache	69Y1356
Xeon E5630 2.53GHz / 4C / 12MB L3 Cache	69Y1357
Xeon E5640 2.66GHz / 4C / 12MB L3 Cache	69Y1358
Xeon X5650 2.66GHz / 6C / 12MB L3 Cache	69Y1229
Xeon X5670 2.93GHz / 6C / 12MB L3 Cache	69Y1231
1x2GB (2Rx8) PC3-10600 DDR3 SDRAM Registered DIMM	49Y1392
1x2GB (1Rx4) PC3-10600 DDR3 SDRAM Registered DIMM	49Y1434
1x4GB (2Rx4) PC3-10600 DDR3 SDRAM Registered DIMM	49Y1435
1x8GB (2Rx4) PC3-10600 DDR3 SDRAM Registered DIMM	49Y1436
ServeRAID M5015 SAS/SATA controller	46M0829
ServeRAID M5014 SAS/SATA controller	46M0916
ServeRAID M5000 series advance feature key	46M0930
ServeRAID M5000 series battery kit	46M0917
ServeRAID M1015 SAS/SATA controller	46M0831
IBM Virtual Media key	46C7527
IBM x3630 M3 3.5" HS Cage Assembly, rear 2 x 3.5"	69Y1511
IBM x3630 M3 2.5" HS Cage Assembly, rear 4 x 2.5"	69Y1527
675 Watt Hot-swap Power Supply Option (US)	69Y1213

Other options at **ibm.com**/products/us

LIMITED WARRANTY[3]

- **3 year parts and labor**
- **International Warranty Service[3]**
- **On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time[7]**
- **3 year on site warranty service upgrade options (in eligible locations):[7]**
  - **9 hr coverage, Mon-Fri excluding holidays, 4 hr response time** (ServicePac® 88Y8328)
  - **24 hr x 7 day coverage, 4 hour average response time** (ServicePac 88Y8329)
  - **24 hr x 7 day coverage, 2 hour average response time** (ServicePac 88Y8330)
- **Other ServicePac options at http://www.ibm.com/services/us/its/pdf/wamomxeu.pdf**
- **24x7[14] toll-free support for warranty issues during the warranty period[3]**

See footnotes for important warranty information

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